Professional Digital Two-Way Radio System

MOTOTRBO™ DM 3600 / DM 3601 Display Mobile

User Guide

MOTOROLA





Contents

This User Guide contains all the information you need to use the MOTOTRBO Series Mobiles.

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Important Safety Information

Product Safety and RF Exposure Compliance



Before using this product, read the operating instructions for safe usage contained in the Product Safety and RF Exposure booklet enclosed with your radio.

ATTENTION!

This radio is restricted to occupational use only to satisfy FCC RF energy exposure requirements. Before using this product, read the RF energy awareness information and operating instructions in the Product Safety and RF Exposure booklet enclosed with your radio (Motorola Publication part number 6866537D37) to ensure compliance with RF energy exposure limits.

For a list of Motorola-approved antennas and other accessories, visit the following website:

http://www.motorola.com/governmentandenterprise

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This voice coding Technology is licensed solely for use within this Communications Equipment. The user of this Technology is explicitly prohibited from attempting to decompile, reverse engineer, or disassemble the Object Code, or in any other way convert the Object Code into a human-readable form.

U.S. Pat. Nos. #5,870,405, #5,826,222, #5,754,974, #5,701,390, #5,715,365, #5,649,050, #5,630,011, #5,581,656, #5,517,511, #5,491,772, #5,247,579, #5,226,084 and #5,195,166.

Getting Started

Take a moment to review the following:

How to Use This User Guide . . . . . page 1
What Your Dealer/System Administrator Can Tell You . page 1
Powering Up the Radio . . . . . page 2
Adjusting the Volume . . . . . page 2

How to Use This User Guide

This User Guide covers the basic operation of the MOTOTRBO Mobiles.

However, your dealer or system administrator may have customized your radio for your specific needs. Check with your dealer or system administrator for more information.

Throughout this publication, two icons are used to differentiate Analog mode and Digital mode only features:


Indicates an Analog Mode only feature.


Indicates a Digital Mode only feature.

For features that are available in both Analog and Digital modes, no icon is shown.

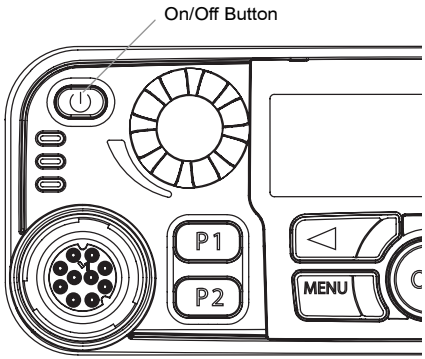
What Your Dealer/System Administrator Can Tell You

You can consult your dealer or system administrator about the following:

- Is your radio programmed with any preset conventional channels?
- Which buttons have been programmed to access other features?
- What optional accessories may suit your needs?

Powering Up the Radio

Press the On/Off Button briefly. You see Powering Up on the radio's display.



The green LED blinks and the Home screen lights up if the backlight setting is set to turn on automatically.

NOTE: The Home screen does not light up during a power up if the LED indicators are disabled (see ***Turning the LED Indicators On or Off*** on page 42).

A brief tone sounds, indicating that the power up test is successful.

NOTE: There is no power up tone if the radio tones/alerts function is disabled (see ***Turning Radio Tones/Alerts On or Off*** on page 41).

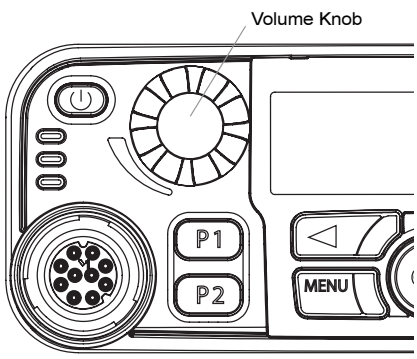
If your radio does not power up, contact your dealer.

To turn off the radio, press and hold the On/Off Button until you see Powering Down on the radio's display.

Adjusting the Volume

To increase the volume, turn the **Volume Knob** clockwise.

To decrease the volume, turn this knob counterclockwise.

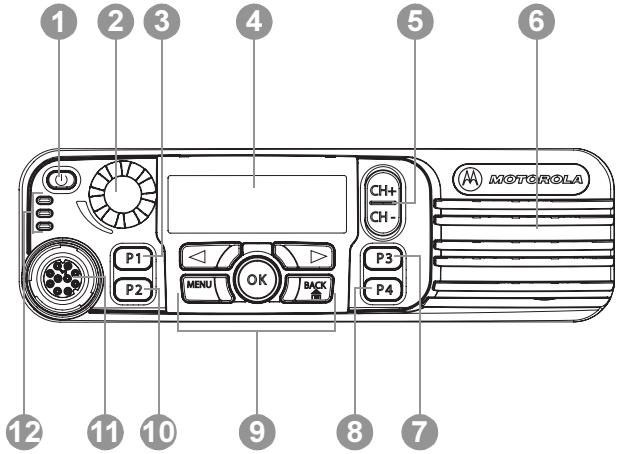


Identifying Radio Controls

Take a moment to review the following:

Radio Controls You Will Be Using . . . . . page 3
Programmable Buttons . . . . . page 4
Accessing the Preprogrammed Functions. . . . . page 5
Push-To-Talk (PTT) Button . . . . . page 6
Switching Between Analog and Digital Mode . . . . . page 6

Radio Controls You Will Be Using



1. On/Off Button
2. Volume Knob
3. Front Button P1*
4. Display
5. Channel Rocker
6. Speaker
7. Front Button P3*
8. Front Button P4*
9. Menu Navigation Buttons
10. Front Button P2*
11. Accessory Connector
12. LED Indicators

** These buttons are programmable.*

Programmable Buttons

Your dealer can program the programmable buttons as shortcuts to radio functions or preset channels/groups depending on the duration of a button press:

- Press – Pressing and releasing rapidly.
- Long press – Pressing and holding for the preprogrammed duration (between 0.25 seconds and 3.75 seconds).
- Hold down – Keeping the button pressed.

Assignable Radio Functions

Contacts – Provides direct access to the Contacts list.

Emergency – Depending on the programming, initiates or cancels an Emergency Alarm or Call.

Manual Dial – Initiates a call by keying in any subscriber ID. Only available with a keypad microphone.

Nuisance Channel Delete – Temporarily removes an unwanted channel, except for the Selected Channel, from the scan list. The Selected Channel refers to the user's selected zone/channel combination from which scan is initiated.

One Touch Call – Directly initiates a predefined Group or Private Call, a Call Alert or a Quick Text message.

Permanent Monitor – Monitors a selected channel for all radio traffic until function is disabled.

Radio Check – Determines if a radio is active in a system.

Radio Enable – Allows a target radio to be remotely enabled.

Radio Disable – Allows a target radio to be remotely disabled.

Remote Monitor – Turns on the microphone of a target radio without it giving any indicators.

Repeater/Talkaround – Toggles between using a repeater and communicating directly with another radio.

Scan – Toggles scan on or off.

Telemetry Control – Controls the Output Pin on a local or remote radio.

Text Messaging – Selects the Text Message menu.

Zone – Allows selection from a list of zones.

Assignable Settings/Utility Functions

All Tones/Alerts – Toggles all tones on or off.

Backlight – Controls the backlight intensity.

Horns/Lights – Toggles horns and lights feature on or off.

Power Level – Toggles transmit power level between high and low.

Squelch – Toggles squelch level between normal and tight.

Accessing the Preprogrammed Functions

You can access various radio functions through one of the following ways:

- A short or long press of the relevant programmable buttons.



OR

- Use the Menu Navigation Buttons as follows:

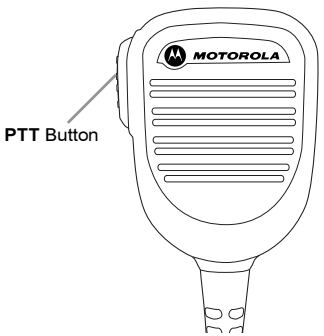
1. To access the menu, press the menu button. Press the appropriate **Menu Scroll** button (◄ or ►) to access the menu functions.
2. To select a function or enter a sub-menu, press the OK button.
3. To go back one menu level, or to return to the previous screen, press the back button. Long press the back button to return to the Home screen.

*The Menu Navigation Buttons are also available on a keypad microphone (see **Using the Keypad** on page 45).*

NOTE: Your radio automatically exits the menu after a period of inactivity and returns to your Home screen.

Push-To-Talk (PTT) Button

The **PTT** button on the side of the microphone serves two basic purposes:



- While a call is in progress, the **PTT** button allows the radio to transmit to other radios in the call.

  Press and hold down **PTT** button to talk. Release the **PTT** button to listen.

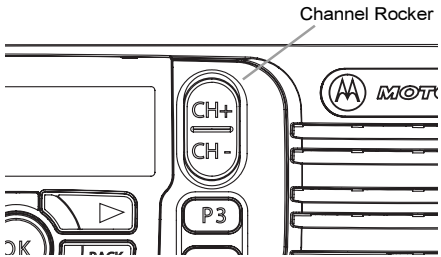
  The microphone is activated when the **PTT** button is pressed.

- While a call is not in progress, the **PTT** button is used to make a new call (see ***Making a Voice Call*** on page 12).

*If the Talk Permit Tone is enabled (see **Turning the Talk Permit Tone On or Off** on page 42), wait until the short alert tone ends before talking.*

Switching Between Analog and Digital Mode

Each channel in your radio can be configured as an analog channel or a digital channel. Use the Channel Rocker to switch between an analog or a digital channel.



When switching from digital to analog mode, certain features are unavailable. Icons for the digital features (such as Messages) reflect this change by appearing “grayed out’. Disabled features are hidden in the menu.

Your radio also has features available in both analog and digital mode. However, the minor differences in the way each feature works does **NOT** affect the performance of your radio.

NOTE: Your radio also switches between digital and analog modes during a dual mode scan (see **Scan** on page 20).

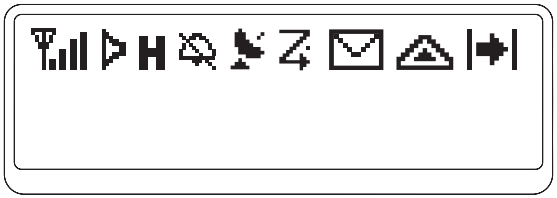
Identifying Status Indicators

Your radio indicates its operational status through the following:

Display Icons . . . . . page 7
Call Icons . . . . . page 8
LED Indicators . . . . . page 8
Audio Tones . . . . . page 9

Display Icons

The liquid crystal display (LCD) of your radio shows the radio status, text entries, and menu entries.



The following are the icons that appear on the radio's display.

Received Signal Strength Indicator (RSSI)
The number of bars displayed represents the radio signal strength. Four bars indicates the strongest signal. This icon is only displayed while receiving.

Power Level
L or H
Radio is set at Low power.
Radio is set at High power.

Emergency
Radio is in Emergency mode.

Monitor
Selected channel is being monitored.

Scan
Scan feature is activated.

Priority Scan
Radio detects activity on channel/group designated as Priority 1 (if • is blinking) or Priority 2 (if • is steady).

Talkaround
In the absence of a repeater, radio is currently configured for direct radio to radio communication.

Unread Message
User has unread message(s) in the Inbox.

Inbox Full
User's Inbox is full.

Tones Disable

Tones are turned off.

GPS Available

The GPS feature is enabled. Blinks when receiving data from the satellite.

GPS Not Available/Out of Range

The GPS feature is enabled but is not receiving data from the satellite.

Call Icons

The following icons appear on the radio's display during a call. These icons also appear in the Contacts list to indicate alias or ID type.

Private Call

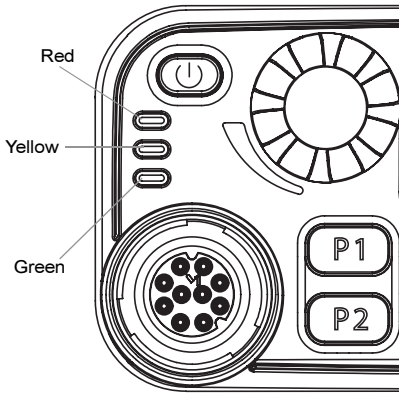
Indicates a Private Call in progress. In the Contacts list, it indicates a subscriber alias (name) or ID (number).

Group Call/All Call

Indicates a Group Call or All Call in progress. In the Contacts list, it indicates a group alias (name) or ID (number).

LED Indicators

LED indicators show the operational status of your radio.



Blinking red – Radio is receiving an Emergency transmission or has failed the self-test upon powering up.

Solid yellow – Radio is receiving a request for a Private Call, or monitoring a channel.

Blinking yellow – Radio is scanning for activity or receiving a Call Alert.

Solid green – Radio is transmitting.

Blinking green – Radio is powering up or receiving a call.

Audio Tones

Alert tones provide you with audible indications of the radio's status or the radio's response to data received.

Continuous Tone

A monotone sound. Sounds continuously until termination.

Periodic Tone

Sounds periodically depending on the duration set by the radio. Tone starts, stops, and repeats itself.

Repetitive Tone

A single tone that repeats itself until it is terminated by the user.

Momentary Tone

Sounds only once for a short period of time defined by the radio.

Receiving and Making Calls

Once you understand how your MOTOTRBO Mobile is configured, you are ready to use your radio.

Use this navigation guide to familiarize yourself with the basic Call features:

Selecting a Zone . . . . . page 9
Selecting a Radio Channel, Subscriber Alias or ID, or Group Alias or ID . . . . . page 10
Receiving and Responding to a Voice Call . . . . . page 10
Making a Voice Call . . . . . page 12
Talkaround . . . . . page 14
Permanent Monitor. . . . . page 15

Selecting a Zone

A zone is a group of channels. Your radio supports up to a maximum of 50 zones.

Use the following procedure to select a zone.

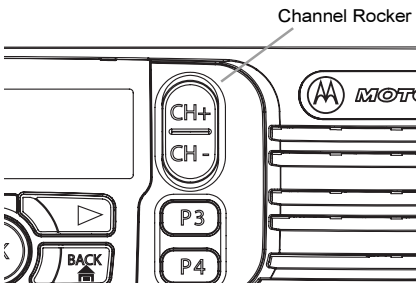
Procedure:
Press the preprogrammed **Zone** button and proceed to step 3.
OR
Follow the procedure below.

1. menu to access the menu.
2. ◄ or ► to `Zone` and press OK to select.
3. The current zone is displayed and indicated by a ✓.
4. ◄ or ► to the required zone and press OK to select.
5. The display shows `<Zone> Selected` momentarily and returns to the selected zone screen.

Selecting a Radio Channel, Subscriber Alias or ID, or Group Alias or ID

Procedure:

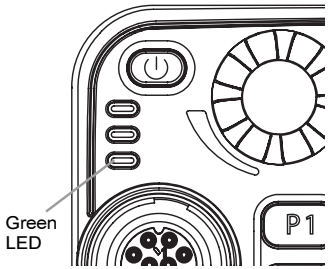
Once the required zone is displayed (if you have multiple zones in your radio), press the Channel Rocker to select the channel, subscriber alias or ID, or group alias or ID.



Receiving and Responding to a Voice Call

Once the channel, subscriber alias or ID, or group alias or ID is displayed, you can proceed to receive and respond to calls.

The green LED lights up while the radio is transmitting and blinks when the radio is receiving.



Receiving and Responding to a Group Call

To receive a call from a group of users, your radio must be configured as part of that group.

Procedure:
When you receive a Group Call (while on the Home screen):

1. The green LED blinks.
2. The first line of the display shows the caller alias or ID, and the RSSI icon. The second line displays the group alias or ID, and the Group Call icon (in Digital mode only).
3. Press the **PTT** button to respond to the call. The green LED lights up.

4 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.

5 Release the **PTT** button to listen.

6 If there is no voice activity for a predetermined period of time, the call ends.

*See **Making a Group Call** on page 12 for details on making a Group Call.*

NOTE: If the radio receives a Group Call while not on the Home screen, it remains on its current screen prior to answering the call.

Long press the back button to go to Home screen to view the caller alias before replying.

Receiving and Responding to a Private Call

A Private Call is a call from an individual radio to another individual radio.

There are two types of Private Calls. The first type, where a radio presence check is performed prior to setting up the call, while the other sets up the call immediately.

When your radio is checked, the yellow LED lights up momentarily. Only one of these call types can be programmed to your radio by your dealer.

Procedure:

When you receive a Private Call:

1 Depending on how your radio is programmed:
The yellow LED lights up momentarily. Then, the green LED blinks.
OR
The green LED blinks.

2 The first line of the display shows the subscriber alias or ID, and the RSSI icon. The second line displays `Private Call` and the Private Call icon.

3 Press the **PTT** button to respond to the call. The green LED lights up.

4 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.

5 Release the **PTT** button to listen.

6 If there is no voice activity for a predetermined period of time, the call ends.

7 You hear a short tone. The display shows `Call Ended`.

*See **Making a Private Call** on page 13 for details on making a Private Call.*

Receiving an All Call

An All Call is a call from an individual radio to every radio on the channel. It is used to make important announcements requiring the user's full attention.

Procedure:
When you receive an All Call:

1 A tone sounds and the green LED blinks.

2 The first line of the display shows the caller alias, and the RSSI icon. The second line displays `All Call` and the All Call icon.

3 Once the All Call ends, the radio returns to the previous screen before receiving the call.

You cannot respond to an All Call.

*See **Making an All Call** on page 13 for details on making an All Call.*

NOTE: The radio stops receiving the All Call if you switch to a different channel while receiving the call.
During an All Call, you will **not** be able to continue with any menu navigation or editing until the call ends.

Making a Voice Call

You can select a channel, subscriber alias or ID, or group alias or ID by using:

- The Channel Rocker
- A preprogrammed **One Touch Call** button
- The Contacts list (see ***Contacts Settings*** on page 23)
- Manual Dial (via Contacts) – This method is for Private Calls only and is dialed using a keypad microphone (see ***Making a Private Call by Manual Dial*** on page 48)

Making a Voice Call with the Channel Rocker

Making a Group Call

To make a call to a group of users, your radio must be configured as part of that group.

Procedure:

1 Press the Channel Rocker to select the channel with the active group alias or ID.

2 Press the **PTT** button to make the call. The green LED lights up. The display shows the group alias or ID, and the Group Call icon.

3 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.

4 Release the **PTT** button to listen. When the target radio responds, the green LED blinks. You see the Group Call icon, the group alias or ID, and transmitting radio alias or ID on your display.

5 If there is no voice activity for a predetermined period of time, the call ends.

6 Radio returns to the previous screen you were on prior to receiving the call.

*You can also make a Group Call via Contacts (see **Making a Group Call from Contacts** on page 23).*

Making a Private Call

Procedure:

1 Press the Channel Rocker to select the channel with the active subscriber alias or ID.

2 Press the **PTT** button to make the call. The green LED lights up. The first line displays the subscriber alias or ID. The second line displays `Private Call` and the Private Call icon.

3 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.

4 Release the **PTT** button to listen. When the target radio responds, the green LED blinks.

5 If there is no voice activity for a predetermined period of time, the call ends.

6 You hear a short tone. The display shows `Call Ended`.

*You can also make a Private Call via Contacts (see **Making a Private Call from Contacts** on page 23), manually dial a Private Call (see **Making a Private Call by Manual Dial** on page 48) or perform a quick alphanumeric search for the required target alias via a keypad entry (see **Making a Private Call by Alias Search** on page 48).*

Making an All Call

This feature allows you to transmit to all users on the channel. Your radio must be programmed to allow you to use this feature.

Procedure:

1 Press the Channel Rocker to select the channel with the active All Call group alias or ID.

2 Press the **PTT** button to make the call. The green LED lights up. The display shows the All Call group alias or ID, and the All Call icon.

3 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.

Users on the channel cannot respond to an All Call.

Making a Group or Private Call with the One Touch Call Button

The One Touch Call feature allows you to make a Group or Private Call to a predefined alias or ID easily. This feature can be assigned to a short or long programmable button press.

You can **ONLY** have one alias or ID assigned to a **One Touch Call** button. Your radio can have multiple **One Touch Call** buttons programmed.

Procedure:

1. Press the preprogrammed **One Touch Call** button to make a Group or Private Call to the predefined alias or ID.
2. Press the **PTT** button to make the call. The green LED lights up. The display shows the group/subscriber alias or ID, and the Group/Private Call icon.
3. Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.
4. Release the **PTT** button to listen. When the target radio responds, the green LED blinks.
5. If there is no voice activity for a predetermined period of time, the call ends.
6. Radio returns to the screen you were on prior to receiving the call.

For a Private Call, you hear a short tone when the call ends.

Talkaround

You can continue to communicate when your repeater is not operating, or when your radio is out of the repeater's range but within talking range of other radios. This is called "talkaround".

Procedure:

Press the preprogrammed **Repeater/Talkaround** button to toggle between talkaround and repeater modes.

OR

Follow the procedure below.

1. menu to access the menu.
2. ◄ or ► to `Utilities` and press OK to select.
3. ◄ or ► to `Radio Settings` and press OK to select.
4. ◄ or ► to `Talkaround` and press OK to select.
5. You see `Turn On` if the radio is currently in Repeater mode.
   OR
   You see `Turn Off` if the radio is currently in Talkaround mode.
6. Press OK to select.
7. The display shows `Talkaround On`.
   OR
   The display shows `Talkaround Off`.
8. The screen automatically returns to the previous menu.

The Talkaround setting is retained even after powering down.

Permanent Monitor

Use the Permanent Monitor feature to continuously monitor a selected channel for activity.

Procedure:

1. Press the preprogrammed **Permanent Monitor** button.
2. Radio sounds an alert tone, the yellow LED lights up, and the display shows `Permanent Monitor On`. The monitor icon appears on the display.
3. Press the preprogrammed **Permanent Monitor** button to exit Permanent Monitor mode.
4. Radio sounds an alert tone, the yellow LED turns off, and display shows `Permanent Monitor Off`.

Advanced Features

Use this navigation guide to learn more about advanced features available with your mobile:

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Remote Monitor . . . . . page 17
Scan Lists . . . . . page 18
Scan . . . . . page 20
Contacts Settings . . . . . page 23
Call Indicator Settings . . . . . page 24
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Text Messaging Features . . . . . page 33
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Utilities . . . . . page 39

Radio Check

If enabled, this feature allows you to determine if another radio is active in a system without disturbing the user of that radio. No audible or visual notification is shown on the target radio.

This feature is only applicable for subscriber aliases or IDs.

Sending a Radio Check

Procedure:
Using the preprogrammed **Radio Check** button.

1. Press the preprogrammed **Radio Check** button
2. ◄ or ► to the required subscriber alias or ID and press (OK) to select.
3. The display shows `Radio Check: <Subscriber Alias or ID>`, indicating that Radio Check is in progress. The green LED lights up.
4. Wait for acknowledgement.
5. If the target radio is active in the system, a tone sounds and the display briefly shows `Target Radio Available`.
   OR
   If the target radio is not active in the system, a tone sounds and the display briefly shows `Target Radio Not Available`.
6. Radio returns to the subscriber alias or ID screen.

OR

Procedure:
Using the menu.

1. menu to access the menu.
2. ◄ or ► to `Contacts` and press (OK) to select.
3. ◄ or ► to the required subscriber alias or ID and press (OK) to select.
4. ◄ or ► to `Radio Check` and press (OK) to select.
5. The display shows `Radio Check: <Subscriber Alias or ID>`, indicating that Radio Check is in progress. The green LED lights up.
6. Wait for acknowledgement.
7. If the target radio is active in the system, a tone sounds and the display briefly shows `Target Radio Available`.
   OR
   If the target radio is not active in the system, a tone sounds and the display briefly shows `Target Radio Not Available`.
8. Radio returns to the subscriber alias or ID screen.

If the back button is pressed when the radio is waiting for acknowledgement, a tone sounds, and the radio terminates all retries and exits Radio Check mode.

You can also initiate Radio Check via manual dial (see ***Initiating a Radio Check by Manual Dial*** *on page 46).*

Remote Monitor

Use the Remote Monitor feature to turn on the microphone of a target radio (subscriber IDs only). No audible or visual indication is given to the target radio. You can use this feature to monitor, remotely, any audible activity surrounding the target radio.

Your radio must be programmed to allow you to use this feature.

Initiating Remote Monitor

Procedure:
Using the preprogrammed **Remote Monitor** button.

1. Press the preprogrammed **Remote Monitor** button.
2. ◄ or ► to the required subscriber alias or ID and press (OK) to select.
3. Radio sounds an alert tone and the green LED blinks.
4. Wait for acknowledgment.
5. The display shows `Remote Monitor Successful.`
   OR
   The display shows `Remote Monitor Failed.`
6. If successful:
   The radio starts receiving audio from the monitored radio for a preprogrammed duration.
   Once the timer expires, the radio sounds an alert tone and the green LED turns off. The display shows `Remote Monitor Ended.`
   OR
   If unsuccessful:
   The radio repeats the attempt until the preprogrammed number of tries expires.

OR

Procedure:
Using the menu.

1. (menu) to access the menu.
2. ◄ or ► to `Contacts` and press (OK) to select.
3. ◄ or ► to the required subscriber alias or ID and press (OK) to select.
4. ◄ or ► to `Remote Mon.` and press (OK) to select.
5. Radio sounds an alert tone and the green LED blinks.
6. Wait for acknowledgment.

7 The display shows `Remote Monitor Successful`.
OR
The display shows `Remote Monitor Failed`.

8 If successful:
The radio starts receiving audio from the monitored radio for a preprogrammed duration.
Once the timer expires, the radio sounds an alert tone and the green LED turns off. The display shows `Remote Monitor Ended`.
OR
If unsuccessful:
The radio repeats the attempt until the preprogrammed number of tries expires.

*You can also manually select a target radio address (see **Initiating Remote Monitor by Manual Dial** on page 47).*

Scan Lists

Scan lists are created and assigned to individual channels/ groups. Your radio scans for voice activity by cycling through the channel/group sequence specified in the scan list for the current channel/group.

Your radio can support up to 32 scan lists, with a maximum of 16 members in a list. Each scan list supports a mixture of both analog and digital entries.

You can add, delete, or prioritize channels by editing a scan list.

Viewing an Entry in the Scan List

Procedure:

1 menu to access the menu.

2 ◄ or ► to `Scan` and press OK to select.

3 ◄ or ► to `View/Edit List` and press OK to select.

4 Use ◄ or ► to view each member on the list.

*The priority icon appears left of the member's alias, if set, to indicate whether the member is on a Priority 1 or Priority 2 channel list. You **cannot** have multiple Priority 1 or Priority 2 channels in a scan list.*

*There is no priority icon if priority is set to **None**.*

Editing the Scan List

Adding a New Entry to the Scan List

Procedure:

1. menu to access the menu.
2. ◄ or ► to Scan and press OK to select.
3. ◄ or ► to View/Edit List and press OK to select.
4. ◄ or ► to Add Member and press OK to select.
5. ◄ or ► to the required alias or ID and press OK to select.
6. ◄ or ► to the required priority level (Priority 1 or Priority 2 is **ONLY** applicable when in Analog mode) and press OK to select.
7. The display shows Entry Saved, followed immediately by Add Another?.
8. ◄ or ► to Yes and press OK to select, to add another entry, and repeat steps 5 and 6.
   OR
   ◄ or ► to No and press OK to select to save the current list.

Deleting an Entry from the Scan List

Procedure:

1. menu to access the menu.
2. ◄ or ► to Scan and press OK to select.
3. ◄ or ► to View/Edit List and press OK to select.
4. ◄ or ► to the required alias or ID and press OK to select.
5. ◄ or ► to Delete? and press OK to select.
6. At Delete Entry?, ◄ or ► to Yes and press OK to select, to delete the entry. The display shows Entry Deleted.
   OR
   ◄ or ► to No and press OK to select to return to the previous screen.
7. Repeat steps 4 to 6 to delete other entries.

After deleting all required aliases or IDs, long press back to return to the Home screen.

Setting and Editing Priority for an Entry in the Scan List

Procedure:

1. menu to access the menu.
2. ◄ or ► to `Scan` and press OK to select.
3. ◄ or ► to `View/Edit List` and press OK to select.
4. ◄ or ► to the required alias or ID and press OK to select.
5. ◄ or ► to `Edit Priority?` and press OK to select.
6. ◄ or ► to the required priority level (Priority 1 or Priority 2 is **ONLY** applicable when in Analog mode) and press OK to select.
7. The display shows `Entry Saved` before returning to the previous screen.
8. The priority icon appears left of the member's name.

*There is no priority icon if priority is set to **None**.*

Scan

When you start a scan, your radio cycles through the preprogrammed scan list for the current channel looking for voice activity.

The yellow LED blinks and you see the scan icon on the display.

During a dual mode scan, if you are on a digital channel, and your radio locks onto an analog channel, it automatically switches from digital mode to analog mode for the duration of the call. This is also true for the reverse.

There are two ways of initiating scan:

- **Main Channel Scan (Manual)**: Your radio scans all the channels/groups in your scan list. On entering scan, your radio may – depending on the settings – automatically start on the last scanned "active" channel/group or on the channel where scan was initiated.
- **Auto Scan (Automatic)**: Your radio automatically starts scanning when you select a channel/group that has Auto Scan enabled.

Starting and Stopping Scan

Procedure:
Press the preprogrammed **Scan** button to start or stop Scan.
OR
Follow the procedure below.

1. Use the Channel Rocker to select a channel preprogrammed with a scan list.
2. menu to access the menu.
3. ◄ or ► to Scan and press OK to select.
4. The display shows Turn On if scan is disabled.
   OR
   The display shows Turn Off if scan is enabled.
5. Press OK to select.
6. The yellow LED blinks and the scan icon is displayed when Scan is enabled.
   OR
   The LED turns off and the scan icon is not displayed when Scan is disabled.

While scanning, the radio will only accept data (e.g. text message, location, telemetry, or PC data) if received on its Selected Channel.

Responding to a Transmission During a Scan

During scanning, your radio stops on a channel/group where activity is detected. The radio stays on that channel for a preprogrammed time period known as “hang time”.

Procedure:

1. Press the **PTT** button during hang time. The green LED lights up.
2. Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.
3. Release the **PTT** button to listen.
4. If you do not respond within the hang time, the radio returns to scanning other channels/groups.

Deleting a Nuisance Channel

If a channel continually generates unwanted calls or noise (termed a “nuisance” channel), you can temporarily remove the unwanted channel from the scan list.

This capability does not apply to the channel designated as the Selected Channel.

Procedure:

1. When your radio “locks on to” an unwanted or nuisance channel, press the preprogrammed **Nuisance Channel Delete** button until you hear a tone.
2. Release the **Nuisance Channel Delete** button. The nuisance channel is deleted.

*Deleting a “nuisance” channel is **only** possible through the preprogrammed **Nuisance Channel Delete** button. This feature is **not** accessible through the menu.*

Restoring a Nuisance Channel

Procedure:
To restore the deleted nuisance channel, do **one** of the following:

- Power the radio off and then powering it on again, **OR**
- Stop and restart a scan via the preprogrammed **Scan** button or menu, **OR**
- Change the channel via the Channel Rocker.

Contacts Settings

Contacts provides “address-book” capabilities on your mobile. Each entry corresponds to an alias or ID that you use to initiate a call.

Additionally, each entry, depending on context, associates with **one** of five types of calls: Group Call, Private Call, All Call, PC Call or Dispatch Call.

PC Call and Dispatch Call are data-related. They are only available with the applications. Refer to the data applications documentation for further details.

Your radio supports two Contacts lists, one for Analog contacts (with a maximum of 128 members) and one for Digital contacts (with a maximum of 256 members).

Each entry within Contacts displays the following information:

- Call Type
- Call Alias
- Call ID

NOTE: You can add, delete, or edit subscriber aliases or IDs for the Digital Contacts list.

For the Analog Contacts list, you can only view the list and initiate a Call Alert. Adding, deleting, and editing capabilities can only be performed by your dealer.

Making a Group Call from Contacts

Procedure:

1 menu to access the menu.

2 ◄ or ► to Contacts and press OK to select.The entries are alphabetically sorted.

3 ◄ or ► to the required group alias or ID.

4 Press the **PTT** button to make the call. The green LED lights up. The display shows the group alias or ID, and the Group Call icon.

5 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.

6 Release the **PTT** button to listen. When any user in the group responds, the green LED blinks. You see the Group Call icon, the group alias or ID, and that user’s alias or ID on your display.

7 If there is no voice activity for a preprogrammed period of time, the call ends.

Making a Private Call from Contacts

Procedure:

1 menu to access the menu.

2 ◄ or ► to Contacts and press (OK) to select.The entries are alphabetically sorted.

3 ◄ or ► to the required subscriber alias or ID.

4 Press the **PTT** button to make the call. The green LED lights up. The first line displays the subscriber alias or ID. The second line displays Private Call and the Private Call icon.

5 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.

6 Release the **PTT** button to listen. When the target radio responds, the green LED blinks and the display shows the transmitting user's alias or ID.

7 If there is no voice activity for a preprogrammed period of time, the call ends.

8 You hear a short tone. The display shows Call Ended.

NOTE: If you release the **PTT** button while the radio is setting up the call, it exits without any indication and returns to the previous screen.

Your radio may be programmed to perform a radio presence check prior to setting up the Private Call. If the target radio is not available, you hear a short tone and see Party Not Available on the display.

The radio returns to the menu prior to initiating the radio presence check.

Call Indicator Settings

Activating and Deactivating Call Ringers for Private Calls

You can turn on or off the ringing tones for a received Private Call.

Procedure:

1 (menu) to access the menu.

2 ◄ or ► to Utilities and press (OK) to select.

3 ◄ or ► to Radio Settings and press (OK) to select.

4 ◄ or ► to Tones/Alerts and press (OK) to select.

5 ◄ or ► to Call Ringers and press (OK) to select.

6 ◄ or ► to Private Call and press (OK) to select.

7 The display shows Turn On. Press (OK) to enable Call Ringers for Private Calls. The display shows Private Call Ringer On.
OR
The display shows Turn Off. Press (OK) to disable Call Ringers for Private Calls. The display shows Private Call Ringer Off.

Activating and Deactivating Call Ringers for Text Messaging

You can turn on or off the ringing tones for a received Text Message.

Procedure:

1. menu to access the menu.
2. ◄ or ► to `Utilities` and press OK to select.
3. ◄ or ► to `Radio Settings` and press OK to select.
4. ◄ or ► to `Tones/Alerts` and press OK to select.
5. ◄ or ► to `Call Ringers` and press OK to select.
6. ◄ or ► to `Text Message` and press OK to select.
7. The current tone is indicated by a ✓.
8. ◄ or ► to the preferred tone and press OK to select. The display shows `Tone <Number> Selected` and a ✓ appears left of the selected tone.
   OR
   ◄ or ► to `Turn Off` and press OK to select. The display shows `Text Message Ringer Off` and a ✓ appears left of `Turn Off`.

Assigning Ring Styles

You can program your radio to sound one of ten predefined ringing tones when receiving a Call Alert or a Text Message from a particular contact.

Procedure:

1. menu to access the menu.
2. ◄ or ► to `Contacts` and press OK to select.The entries are alphabetically sorted.
3. ◄ or ► to the required alias or ID and press OK to select.
4. ◄ or ► to `Ring Style` and press OK to select.
5. A ✓ indicates the current selected tone.
6. ◄ or ► to the required tone and press OK to select.
7. The display shows `Contact Saved`.

The radio sounds out each ring style as you navigate through the list.

Escalating Alarm Tone Volume

You can program your radio to continually alert you when a radio call remains unanswered. This is done by automatically increasing the alarm tone volume over time. This feature is known as Escalert.

Procedure:

1. menu to access the menu.
2. ◄ or ► to `Utilities` and press OK to select.
3. ◄ or ► to `Radio Settings` and press OK to select.
4. ◄ or ► to `Tones/Alerts` and press OK to select.
5. ◄ or ► to `Escalert` and press OK to select.
6. The display shows `Turn On`. Press OK to enable Escalert.
   The display shows `Escalert On`.
   OR
   The display shows `Turn Off`. Press OK to disable Escalert.
   The display shows `Escalert Off`.

Call Log Features

Your radio keeps track of all recent outgoing, answered, and missed Private Calls. Use the call log feature to view and manage recent calls.

You can perform the following tasks in each of your call lists:

- Store alias or ID to Contacts
- Delete

Viewing Recent Calls

The lists are `Missed`, `Answered`, and `Outgoing`.

Procedure:

1. menu to access the menu.
2. ◄ or ► to `Call Log` and press OK to select.
3. ◄ or ► to preferred list and press OK to select.
4. The display shows the most recent entry at the top of the list.
5. ◄ or ► to view the list.

*Press the **PTT** button to start a Private Call with the current selected alias or ID.*

Missed Call Screen

Whenever a call is missed, your radio displays a missed call message. Select `View?` to view it immediately or `View Later?` to view at a later time.

NOTE: The radio exits the Missed Call screen and sets up a Private Call if you press the **PTT** button while viewing a missed call number.

Procedure:

1. The display shows `Missed Calls`, along with the number of calls missed and `View?`.
2. Press (OK) to view the missed call alias or ID. The missed call log list appears on display.

   Press (OK) to store or delete the entry.

   OR

   ◄ or ► to `View Later?` and press (OK) to select. You return to the Home screen.

*To store/save an alias or ID from the Missed Call list, see **Storing an Alias or ID from the Missed Call List** on page 49.*

Deleting a Call from a Call List

Procedure:

1. (menu) to access the menu.
2. ◄ or ► to `Call Log` and press (OK) to select.
3. ◄ or ► to the required list and press (OK) to select.
4. ◄ or ► to the required alias or ID and press (OK) to select.
5. ◄ or ► to `Delete Entry?` and press (OK) to select.
6. ◄ or ► to `Yes` and press (OK) to select.
7. The display shows `Entry Deleted`.

The display shows `List Empty` when you select a call list and it contains no entries.

Call Alert Operation

Call Alert paging enables you to alert a specific radio user to call you back when they are able to do so.

This feature is applicable for subscriber aliases or IDs only and is accessible through the menu via Contacts or manual dial.

Receiving and Acknowledging a Call Alert

When you receive a Call Alert page, you see `Call Alert` that alternates with the alias or ID of the calling radio on the display.

Procedure:

1. You hear a repetitive tone. The yellow LED blinks.
2. Press and release the **PTT** button to acknowledge the alert.
   OR
   Press (OK) to exit the Call Alert.

Making a Call Alert from the Contacts List

Procedure:

1. (menu) to access the menu.
2. ◄ or ► to `Contacts` and press (OK) to select.
3. ◄ or ► to the required subscriber alias or ID and press (OK) to select.
4. ◄ or ► to `Call Alert` and press (OK) to select.
5. The display shows `Call Alert: <Subscriber Alias or ID>`, indicating that the Call Alert has been sent.
6. The green LED lights up when your radio is sending the Call Alert.
7. If the Call Alert acknowledgement is received, a tone sounds and the display shows `Call Alert Successful`.
   OR
   If the Call Alert acknowledgement is not received, a tone sounds and the display shows `Call Alert Failed`.

*You can also send a Call Alert by manually dialing the subscriber ID (see **Sending a Call Alert by Manual Dial** on page 49).*

Making a Call Alert with the One Touch Call Button

Procedure:

1. Press the preprogrammed **One Touch Call** button to make a Call Alert to the predefined alias or ID.
2. The display shows `Call Alert: <Subscriber Alias or ID>`, indicating that the Call Alert has been sent.
3. The green LED lights up when your radio is sending the Call Alert.
4. If the Call Alert acknowledgement is received, a tone sounds and the display shows `Call Alert Successful`.
   OR
   If the Call Alert acknowledgement is not received, a tone sounds and the display shows `Call Alert Failed`.

Emergency Operation

An Emergency Alarm is used to indicate a critical situation. You are able to initiate an Emergency at any time on any screen display even when there is activity on the current channel.

Your radio supports 3 Emergency Alarms:

- Emergency Alarm
- Emergency Alarm with Call
- Emergency Alarm with Voice to Follow

In addition, each alarm has the following types:

- Regular – Radio transmits an alarm signal and shows audio and/or visual indicators.
- Silent – Radio transmits an alarm signal without any audio or visual indicators.

Only **one** of the Emergency Alarms above can be assigned to the preprogrammed **Emergency** button or the **Emergency** footswitch.

Receiving an Emergency Alarm

Procedure:

1. When receiving an Emergency Alarm, the display shows the Emergency icon, the number of alarms received, and `Alarm Rcvd`, which alternates with the alias or ID of the sender.
2. A tone sounds and the red LED blinks.
3. If enabled, your radio automatically acknowledges the Emergency Alarm.

When your radio receives an Emergency Alarm, it displays the Emergency Alarm received indications until acknowledgement is sent and you exit the Emergency mode.

You will not be able to receive any other indications or displays for any other calls until you exit the Emergency Alarm received screen.

NOTE: Short press back, then long press the preprogrammed **Emergency** button to clear the Emergency Alarm received indications and exit Emergency mode.

Responding to an Emergency Alarm

Procedure:

When receiving an Emergency Alarm:

1. Press any button to stop all Emergency Alarm received indications.
2. Press **PTT** button to initiate a call with the emergency initiating radio. The green LED lights up. Your radio remains in the Emergency mode.
3. Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.
4. Release the **PTT** button to listen. When the emergency initiating radio responds, the green LED blinks. You see the Group Call icon, the group alias or ID, and transmitting radio alias or ID on your display.
5. Once your call ends, short press back, then long press the preprogrammed **Emergency** button to clear the Emergency Call received indications and exit Emergency mode.
6. The radio returns to the Home screen.

Sending an Emergency Alarm

This feature allows you to send an Emergency Alarm, a non-voice signal, which triggers an alert indication on another radio.

Procedure:

1. Press the preprogrammed **Emergency** button or the **Emergency** footswitch.
2. The display shows `Sending Alarm`, which alternates with your radio ID. The green LED lights up and the Emergency icon appears on the Home screen display.
3. When an Emergency Alarm acknowledgment is received, the Emergency tone sounds and the green LED blinks. The display shows `Emergency Alarm Successful.`
   OR
   If your radio does not receive an Emergency Alarm acknowledgement, and after all retries have been exhausted, a tone sounds and the display shows `Emergency Alarm Failed.`
4. Radio exits the Emergency Alarm mode and returns to the Home screen.

Sending an Emergency Alarm with Call

This feature allows you send an Emergency Alarm to another radio. Upon acknowledgement, both radios can communicate over a preprogrammed Emergency channel.

Procedure:

1. Press the preprogrammed **Emergency** button or the **Emergency** footswitch.
2. The display shows `Sending Alarm`, which alternates with your radio ID. The green LED lights up and the Emergency icon appears on the Home screen display.
3. When an Emergency Alarm acknowledgment is received, the Emergency tone sounds and the green LED blinks. The display shows `Emergency Alarm Successful.`
4. Press **PTT** button to make the call. The green LED lights up and the group icon appears on the display.
5. Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.
6. Long press the preprogrammed **Emergency** button to exit the Emergency mode.
7. The radio returns to the Home screen.

Sending an Emergency Alarm with Voice to Follow

This feature allows you to send an Emergency Alarm to another radio. Upon acknowledgement, your radio's microphone is automatically activated, allowing you to communicate with the other radio without pressing the **PTT**.

This activated microphone state is also known as "hot mic".

If you press the **PTT** button during the preprogrammed hot mic transmission period, the radio ignores the **PTT** press and remains in Emergency mode.

NOTE: If you press the **PTT** button during hot mic, and continue to press it after the hot mic duration expires, the radio continues to transmit until you release the **PTT** button.

Procedure:

1. Press the preprogrammed **Emergency** button or the **Emergency** footswitch.
2. The display shows `Sending Alarm`. The green LED lights up and the Emergency icon is displayed.
3. Once the display shows `Emergency Alarm Successful`, speak clearly into the microphone. When hot mic has been enabled, the radio automatically transmits without a **PTT** press until the hot mic duration expires.
4. While transmitting, the green LED lights up and the Emergency icon appears on the display.
5. Once the hot mic duration expires, the radio automatically stops transmitting. To transmit again, press the **PTT** button.

If the Emergency Alarm request fails, the radio returns to the Home screen.

Reinitiating an Emergency Mode

There are two instances where this can happen:

- You change the channel while the radio is in Emergency mode. This exits the Emergency mode. If Emergency Alarm is enabled on this new channel, the radio reinitiates Emergency.
- You press the preprogrammed **Emergency** button during an Emergency initiation/transmission state. This causes the radio to exit this state, and to reinitiate Emergency.

Exiting Emergency Mode

Your radio exits Emergency mode when **one** of the following occurs:

- Emergency Alarm acknowledgement is received (for **Emergency Alarm** only), **OR**
- All retries to send the alarm have been exhausted, **OR**
- The preprogrammed **Emergency** button is long pressed (not applicable for **Emergency Alarm with Voice to Follow**).

NOTE: If your radio is powered off, it exits the Emergency mode. The radio will not reinitiate the Emergency mode automatically when it is turned on again.

Text Messaging Features

Sending a Quick Text Message

Your radio supports a maximum of ten (10) Quick Text messages as programmed by your dealer.

Procedure:
Press the preprogrammed **Text Messaging** button and proceed to step 3.
OR
Follow the procedure below.

1. menu to access the menu.
2. ◄ or ► to `Messages` and press OK to select.
3. ◄ or ► to `Quick Text` and press OK to select.
4. ◄ or ► to the required Quick Text and press OK to select.
5. ◄ or ► to the required alias or ID and press OK to select.
6. The display shows `Text Message: <Subscriber/Group Alias or ID>`, confirming your message is being sent.
7. If the message is sent successfully, a tone sounds and the display shows `Message Sent`.
   OR
   If the message cannot be sent, the display shows `Message Sent Failed`.

Sending a Quick Text Message with the One Touch Call Button

1 Press the preprogrammed **One Touch Call** button to send a predefined Quick Text message to a predefined alias or ID.

2 The display shows `Text Message: <Subscriber/Group Alias or ID>`, confirming your message is being sent.

3 If the message is sent successfully, a tone sounds and the display shows `Message Sent`.
OR
If the message cannot be sent, the display shows `Message Sent Failed`.

Only applicable when sending to subscriber aliases or IDs:

If the target radio successfully receives the Quick Text message, a tone sounds and the display shows `Message Ack Rcvd`.
OR
If the target radio fails to receive the Quick Text message, a tone sounds and the display shows `Message Ack Failed`.

NOTE: While Quick Text messages are preprogrammed, you can edit each message before sending it (see ***Editing a Quick Text Message*** on page 51).

Receiving a Text Message

When receiving a message, the display shows the alias or ID of the sender and the message icon at the far left of the screen.

You can select one of the following options when receiving a text message:

- Read
- Read Later
- Delete

NOTE: The radio exits the Text Message alert screen and sets up a Private or Group Call if the **PTT** button is pressed when the radio is displaying the alert screen.

Reading a Text Message

Procedure:

1 ◄ or ► to `Read` and press OK to select.

2 Selected message in the Inbox opens.

3 Press back to return to the Inbox.
OR
Press OK to reply, forward, or delete the text message.

Selecting `Read Later` returns you to the screen you were on prior to receiving the text message. Selecting `Delete` deletes the text message.

Managing Text Messages

Use the Inbox to manage your text messages. The Inbox is capable of storing a maximum of 30 messages.

Your radio supports the following options for text messages:

- Reply (via Quick Text)
- Forward
- Save
- Delete
- Delete All

Text messages in the Inbox are sorted according to the most recently received.

NOTE: *Press back at any time to return to the previous screen or long press back to return to the Home screen.*

Viewing a Text Message from the Inbox

Procedure:

1 menu to access the menu.

2 ◄ or ► to Messages and press OK to select.

3 ◄ or ► to Inbox and press OK to select.

4 ◄ or ► to view the messages.

5 Press OK to select the current message, and press OK again to reply, forward, save, or delete that message.
OR
Long press back to return to the Home screen.

Replying to a Text Message with Quick Text

Procedure:
Press the preprogrammed **Text Messaging** button and proceed to step 3.
OR
Follow the procedure below.

1 menu to access the menu.

2 ◄ or ► to Messages and press OK to select.

3 ◄ or ► to Inbox and press OK to select.

4 ◄ or ► to the required message and press OK to select.

5 Press OK once more to access the sub-menu.

6 ◄ or ► to Reply and press OK to select.

7 ◄ or ► to Quick Text and press OK to select.

8 ◄ or ► to the required message and press OK to select.

9 The display shows Text Message: <Subscriber/Group Alias or ID>, confirming your message is being sent.

10 If the message is sent successfully, a tone sounds and the display shows Message Sent.
OR
If the message cannot be sent, the display shows Message Sent Failed.

Only applicable when sending to subscriber aliases or IDs:

If the target radio successfully receives the Quick Text message, a tone sounds and the display shows Message Ack Rcvd.
OR
If the target radio fails to receive the Quick Text message, a tone sounds and the display shows Message Ack Failed.

NOTE: If you are using a keypad microphone, you can also write and send a new message (see ***Writing and Sending a Text Message*** on page 50) or modify a Quick Text message before sending it (see ***Editing a Quick Text Message*** on page 51).

Deleting a Text Message from the Inbox

Procedure:
Press the preprogrammed **Text Messaging** button and proceed to step 3.
OR
Follow the procedure below.

1 menu to access the menu.

2 ◄ or ► to Messages and press OK to select.

3 ◄ or ► to Inbox and press OK to select.

4 ◄ or ► to the required message and press OK to select.

5 Press OK once more to access the sub-menu.

6 ◄ or ► to Delete and press OK to select.

7 At Delete Message?, ◄ or ► to Yes and press OK to select.

8 The display shows Message Deleted.

9 The screen returns to the Inbox.

Deleting All Text Messages from the Inbox

Procedure:
Press the preprogrammed **Text Messaging** button and proceed to step 3.
OR
Follow the procedure below.

1. menu to access the menu.
2. ◄ or ► to `Messages` and press OK to select.
3. ◄ or ► to `Inbox` and press OK to select.
4. ◄ or ► to `Delete All` and press OK to select.
5. At `Delete Message?`, ◄ or ► to `Yes` and press OK to select.
6. The display shows `Inbox Cleared`.

The display shows `List Empty` when you select the Inbox and it contains no text messages.

NOTE: Additional text messaging features are available with a keypad-enabled microphone. Refer to ***Text Messaging*** on page 50 for more details.

Security

You can enable or disable any radio in the system. For example, you might want to disable a stolen radio, to prevent the thief from using it, and enable that radio, when it is recovered.

NOTE: Performing Radio Disable and Enable is limited to radios with these functions enabled.

Radio Disable

Procedure:
Using the preprogrammed **Radio Disable** button.

1. Press the preprogrammed **Radio Disable** button.
2. ◄ or ► to the required subscriber alias or ID and press OK to select.
3. The display shows `Radio Disable: <Subscriber Alias or ID>` and the green LED lights up.
4. Wait for acknowledgment.
5. If successful, a tone sounds and the display shows `Radio Disable Successful`.
   OR
   If not successful, a tone sounds and the display shows `Radio Disable Failed`.

OR

Procedure:
Using the menu.

1 menu to access the menu.

2 ◄ or ► to Contacts and press OK to select. The entries are alphabetically sorted.

3 ◄ or ► to the required subscriber alias or ID and press OK to select.

4 ◄ or ► to Radio Disable and press OK to select. The green LED blinks.

5 The display shows Radio Disable: <Subscriber Alias or ID> and the green LED lights up.

6 Wait for acknowledgment.

7 If successful, a tone sounds and the display shows Radio Disable Successful.
OR
If not successful, a tone sounds and the display shows Radio Disable Failed.

Do not press back during the Radio Disable operation as you will not get an acknowledgement message.

*You can also access this feature using manual dial (see **Radio Disable via Manual Dial** on page 52).*

Radio Enable

Procedure:
Using the preprogrammed **Radio Enable** button.

1 Press the preprogrammed **Radio Enable** button.

2 ◄ or ► to the required subscriber alias or ID and press OK to select.

3 The display shows Radio Enable: <Subscriber Alias or ID> and the green LED lights up.

4 Wait for acknowledgment.

5 If successful, a tone sounds and the display shows Radio Enable Successful.
OR
If not successful, a tone sounds and the display shows Radio Enable Failed.

OR

Procedure:
Using the menu.

1 menu to access the menu.

2 ◄ or ► to Contacts and press OK to select. The entries are alphabetically sorted.

3 ◄ or ► to the required subscriber alias or ID and press (OK) to select.

4 ◄ or ► to `Radio Enable` and press (OK) to select. The green LED blinks.

5 The display shows `Radio Enable: <Subscriber Alias or ID>` and the green LED lights up.

6 Wait for acknowledgment.

7 If successful, a tone sounds and the display shows `Radio Enable Successful`.
OR
If not successful, a tone sounds and the display shows `Radio Enable Failed`.

Do not press (back) during the Radio Enable operation as you will not get an acknowledgement message.

*You can also access this feature using manual dial (see **Radio Enable via Manual Dial** on page 53).*

Utilities

Setting the Squelch Level

You can adjust your radio's squelch level to filter out unwanted calls with low signal strength or channels that have a higher than normal background noise.

Settings: `Normal` is the default. `Tight` filters out (unwanted) calls and/or background noise. However, calls from remote locations may also be filtered out.

Procedure:
Press the preprogrammed **Squelch** button to toggle squelch level between normal and tight.
OR
Follow the procedure below.

1 (menu) to access the menu.

2 ◄ or ► to `Utilities` and press (OK) to select.

3 ◄ or ► to `Radio Settings` and press (OK) to select.

4 ◄ or ► to `Squelch` and press (OK) to select.

5 Choose either `Tight` or `Normal` and press (OK) to select.

6 Screen returns to the previous menu.

Setting the Power Level

You can customize your radio's power setting to high or low for each channel.

Settings: `High` enables communication with radios located at a considerable distance from you. `Low` enables communication with radios in closer proximity.

Procedure:
Press the preprogrammed **Power Level** button to toggle transmit power level between high and low.
OR
Follow the procedure below.

1. menu to access the menu.
2. ◄ or ► to `Utilities` and press OK to select.
3. ◄ or ► to `Radio Settings` and press OK to select.
4. ◄ or ► to `Power` and press OK to select.
5. Change your current setting as prompted on the display.
6. Press OK to select a new power level.
7. Screen returns to the previous menu.

Long press back to return to the Home screen. The power level icon is visible.

Controlling the Display Backlight

You can set the radio's display backlight intensity to either `Low`, `Medium`, `High`, or `Off`, to light up the display and the Menu Navigation Buttons backlighting accordingly. The setting also affects the keypad backlighting on a keypad microphone.

Procedure:
Press the preprogrammed **Backlight** button to set the backlight intensity. Each press changes the display backlight setting to a new setting.
OR
Follow the procedure below.

1. menu to access the menu.
2. ◄ or ► to `Utilities` and press OK to select.
3. ◄ or ► to `Radio Settings` and press OK to select.
4. ◄ or ► to `Backlight` and press OK to select.
5. A ✓ indicates the current setting.
6. ◄ or ► to the required setting and press OK to select.
7. The display lights up accordingly and the screen returns to the previous menu.

The display backlight, buttons and/or keypad backlighting are automatically turned off if the LED indicators are disabled (see ***Turning the LED Indicators On or Off*** *on page 42).*

Turning Horns/Lights On or Off

Your radio is able to notify you of an incoming call via the horns and lights feature. When activated, an incoming call sounds your vehicle's horn and turns on its lights.

This feature needs to be installed through your radio's rear accessory connector by your dealer.

Procedure:
Press the preprogrammed **Horns/Lights** button to toggle horns and lights feature on or off.
OR
Follow the procedure below.

1. menu to access the menu.
2. ◄ or ► to `Utilities` and press OK to select.
3. ◄ or ► to `Radio Settings` and press OK to select.
4. ◄ or ► to `Horns/Lights` and press OK to select.
5. The display shows `Turn On`. Press OK to enable the horns and lights feature. The display shows `Horns and Lights On`.
   OR
   The display shows `Turn Off`. Press OK to disable the horns and lights feature. The display shows `Horns and Lights Off`.

Turning Radio Tones/Alerts On or Off

You can enable and disable all radio tones and alerts (except for the incoming Emergency alert tone) if needed.

Procedure:
Press the preprogrammed **All Tones/Alerts** button to toggle all tones on or off.
OR
Follow the procedure below.

1. menu to access the menu.
2. ◄ or ► to `Utilities` and press OK to select.
3. ◄ or ► to `Radio Settings` and press OK to select.
4. ◄ or ► to `Tones/Alerts` and press OK to select.
5. ◄ or ► to `All Tones` and press OK to select.
6. The display shows `Turn On`. Press OK to enable all tones and alerts. The display shows `All Tones On`.
   OR
   The display shows `Turn Off`. Press OK to disable all tones and alerts. The display shows `All Tones Off`.

Turning the Talk Permit Tone On or Off

You can enable and disable the Talk Permit Tone if needed.

Procedure:

1. menu to access the menu.
2. ◄ or ► to Utilities and press OK to select.
3. ◄ or ► to Radio Settings and press OK to select.
4. ◄ or ► to Tones/Alerts and press OK to select.
5. ◄ or ► to Talk Permit and press OK to select.
6. Select Turn On. Press OK to enable the Talk Permit Tone. The display shows Talk Permit Tone On.
   OR
   Select Turn Off. Press OK to disabled the Talk Permit Tone. The display shows Talk Permit Tone Off.

Turning the LED Indicators On or Off

You can enable and disable the LED Indicators if needed.

Procedure:

1. menu to access the menu.
2. ◄ or ► to Utilities and press OK to select.
3. ◄ or ► to Radio Settings and press OK to select.
4. ◄ or ► to LED Indicator and press OK to select.
5. Select Turn On. Press OK to enable the LED Indicators. The display shows All LEDs On.
   OR
   Select Turn Off. Press OK to disable the LED Indicators. The display shows All LEDs Off.

The display backlight, buttons and/or keypad backlighting are automatically turned off if the LED Indicators are disabled (see ***Controlling the Display Backlight*** *on page 40).*

Turning the Introduction Screen On or Off

You can enable and disable the Introduction Screen if needed.

Procedure:

1. menu to access the menu.
2. ◄ or ► to Utilities and press OK to select.
3. ◄ or ► to Radio Settings and press OK to select.
4. ◄ or ► to Intro Screen and press OK to select.
5. The display shows Turn On. Press OK to enable the Introduction Screen. The display shows Intro Screen On.
   OR
   The display shows Turn Off. Press OK to disable the Introduction Screen. The display shows Intro Screen Off.

Accessing General Radio Information

Your radio contains information on the following:

- Radio ID
- Software Version
- Codeplug Version

NOTE: Press back at any time to return to the previous screen or long press back to return to the Home screen.

Checking the Radio ID

Displays the ID of your radio.

Procedure:

1. menu to access the menu.
2. ◄ or ► to Utilities and press OK to select.
3. ◄ or ► to Radio Info and press OK to select.
4. ◄ or ► to My Number and press OK to select.
5. The radio ID is displayed.

Checking the Firmware Version

Displays the firmware version on your radio.

Procedure:

1 menu to access the menu.

2 ◄ or ► to Utilities and press OK to select.

3 ◄ or ► to Radio Info and press OK to select.

4 ◄ or ► to Firmware Ver. and press OK to select.

5 The current firmware version is displayed.

Checking the Codeplug Version

Displays the codeplug version on your radio.

Procedure:

1 menu to access the menu.

2 ◄ or ► to Utilities and press OK to select.

3 ◄ or ► to Radio Info and press OK to select.

4 ◄ or ► to CP Ver. and press OK to select.

5 The current codeplug version is displayed.

Keypad Microphone Features

The following additional features for your mobile are available with a keypad-enabled microphone:

Using the Keypad . . . . . page 45
Additional Advanced Features . . . . . page 46
Text Messaging . . . . . page 50
Security . . . . . page 52

Using the Keypad

You can use the 3 x 4 alphanumeric keypad on the keypad microphone (Motorola part number: RMN5065_) to access your radio's features. You can use the keypad to enter subscriber aliases or IDs, and text messages. Many characters require that you press a key multiple times. The table below shows the number of times a key needs to be pressed to generate the required character.

	Number of Times Key is Pressed												
Key	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**
1	1	.	,	?	!	@	&	‘	%	-	:	*	#
2 abc	A	B	C	2									
3 def	D	E	F	3									
4 ghi	G	H	I	4									
5 jkl	J	K	L	5									
6 mno	M	N	O	6									
7 pqrs	P	Q	R	S	7								
8 tuv	T	U	V	8									
9 wxyz	W	X	Y	Z	9								
0	0	**NOTE**: Press to enter “0” and long press to activate the CAPS lock. Another long press to turn off the CAPS lock.											
*	* or del	**NOTE**: Press during text entry to delete the character. Press during numeric entry to enter a “*”.											
#	# or space	**NOTE**: Press during text entry to insert a space. Press during numeric entry to enter a “#”.											

Turning Keypad Tones On or Off

You can enable and disable Keypad Tones if needed.

Procedure:

1. menu to access the menu.
2. ◄ or ► to `Utilities` and press OK to select.
3. ◄ or ► to `Radio Settings` and press OK to select.
4. ◄ or ► to `Tones/Alerts` and press OK to select.
5. ◄ or ► to `Keypad Tones` and press OK to select.
6. The display shows `Turn On`. Press OK to enable keypad tones. The display shows `Keypad Tone On`.
   OR
   The display shows `Turn Off`. Press OK to disable keypad tones. The display shows `Keypad Tone Off`.

Additional Advanced Features

Initiating a Radio Check by Manual Dial

Procedure:

1. menu to access the menu.
2. ◄ or ► to `Contacts` and press OK to select.
3. ◄ or ► to `Manual Dial` and press OK to select.
4. If there is a previously dialed subscriber ID, the ID appears along with a blinking cursor.
   Use the keypad to edit the ID. Press OK to select.
   OR
   Use the keypad to enter a new subscriber ID. Press OK to select.
5. ◄ or ► to `Radio Check` and press OK to select.
6. The display shows `Radio Check: <Subscriber ID>`, indicating that Radio Check is in progress. The green LED lights up.
7. Wait for acknowledgement.

8 If the target radio is active in the system, a tone sounds and the display briefly shows `Target Radio Available`.
OR
If the target radio is not active in the system, a tone sounds and the display briefly shows `Target Radio Not Available`.

9 Radio returns to the subscriber ID screen.

If the back button is pressed when the radio is waiting for acknowledgement, a tone sounds, and the radio terminates all retries and exits Radio Check mode.

Initiating Remote Monitor by Manual Dial

Procedure:

1 menu to access the menu.

2 ◄ or ► to `Contacts` and press OK to select.

3 ◄ or ► to `Manual Dial` and press OK to select.

4 If there is a previously dialed subscriber ID, the ID appears along with a blinking cursor.
Use the keypad to edit the subscriber ID. Press OK to select.
OR
Use the keypad to enter a new subscriber ID. Press OK to select.

5 ◄ or ► to `Remote Mon.` and press OK to select.

6 Wait for acknowledgment.

7 The display shows `Remote Monitor Successful`.
OR
The display shows `Remote Monitor Failed`.

8 If successful:
Once the timer expires, the radio sounds an alert tone and the green LED turns off. The display shows `Remote Monitor Ended`.
OR
If unsuccessful:
The radio repeats the attempt until the preprogrammed number of tries expires.

Making a Private Call by Manual Dial

Procedure:

1. menu to access the menu.
2. ◄ or ► to Contacts and press OK to select.The entries are alphabetically sorted.
3. ◄ or ► to Manual Dial and press OK to select.
4. If there is a previously dialed subscriber ID, the ID appears along with a blinking cursor.
   Use the keypad to edit the subscriber ID.
   OR
   Use the keypad to enter a new subscriber ID.
5. Press the **PTT** button to make the call. The green LED lights up. The first line displays the target radio's ID. The second line displays Private Call and the Private Call icon.
6. Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.
7. Release the **PTT** button to listen. When the target radio responds, the green LED blinks.
8. If there is no voice activity for a preprogrammed period of time, the call ends.
9. You hear a short tone. The display shows Call Ended.

Making a Private Call by Alias Search

You can also use alias or alphanumeric search to retrieve the required subscriber alias.

This feature is only applicable while in Contacts.

Procedure:

1. menu to access the menu.
2. ◄ or ► to Contacts and press OK to select. The entries are alphabetically sorted.
3. Key in the first character of the alias.
4. ◄ or ► to the required alias.
5. Press the **PTT** button to make the call. The green LED lights up. The first line displays the target radio's ID. The second line displays Private Call and the Private Call icon.
6. Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone
7. Release the **PTT** button to listen. When the target radio responds, the green LED blinks.
8. If there is no voice activity for a preprogrammed period of time, the call ends.
9. You hear a short tone. The display shows Call Ended.

Storing an Alias or ID from the Missed Call List

Procedure:

1. menu to access the menu.
2. ◄ or ► to `Call Log` and press OK to select.
3. ◄ or ► to `Missed` and press OK to select.
4. ◄ or ► to the required missed call alias or ID and press OK to select.
5. ◄ or ► to `Store?` and press OK to select.
6. A blinking cursor appears. If needed, key in the alias for that ID and press OK.
7. The display shows `Contact Saved`.

You can also store an ID without an alias.

Sending a Call Alert by Manual Dial

Procedure:

1. menu to access the menu.
2. ◄ or ► to `Contacts` and press OK to select.
3. ◄ or ► to `Manual Dial` and press OK to select.
4. A blinking cursor appears. Enter the subscriber ID you want to send the Call Alert to and press OK.
5. ◄ or ► to `Call Alert` and press OK to select.
6. The display shows `Call Alert: <Subscriber ID>`, confirming that the Call Alert has been sent.
7. The green LED lights up when your radio is sending the Call Alert.
8. If the Call Alert acknowledgement is received, a tone sounds and the display shows `Call Alert Successful`.
   OR
   If the Call Alert acknowledgement is not received, a tone sounds and the display shows `Call Alert Failed`.

Text Messaging

NOTE: Press back at any time to return to the previous screen or long press back to return to the Home screen.

Writing and Sending a Text Message

The maximum length of characters for a text message is 140.

Procedure:
Press the preprogrammed **Text Messaging** button and proceed to step 3.
OR
Follow the procedure below.

1 menu to access the menu.

2 ◄ or ► to `Messages` and press OK to select.

3 ◄ or ► to `Write` and press OK to select.

4 Use the keypad to type your message.
Press ◄ to move one space to the left.
Press ► or the **#** key to move one space to the right.
Press the * key to delete any unwanted characters.

5 Press OK once message is composed.

6 ◄ or ► to the required subscriber alias or ID and press OK to select.
OR
◄ or ► to `Manual Dial` and press OK to select.
Key in the subscriber ID and press OK.

7 The display shows `Text Message: <Subscriber Alias or ID>`, confirming your message is being sent.

8 If the message is sent, a tone sounds and the display shows `Message Sent`.
OR
If the message is not sent, the display shows `Message Sent Failed`.

Only applicable when sending to subscriber aliases or IDs:

If the target radio successfully receives the Quick Text message, a tone sounds and the display shows `Message Ack Rcvd`.
OR
If the target radio fails to receive the Quick Text message, a tone sounds and the display shows `Message Ack Failed`.

Replying to Text Messages from the Inbox

Procedure:
Press the preprogrammed **Text Messaging** button and proceed to step 3.
OR
Follow the procedure below.

1 menu to access the menu.

2 ◄ or ► to Messages and press ⓞ to select.

3 ◄ or ► to Inbox and press ⓞ to select.

4 ◄ or ► to the required message and press ⓞ to select.

5 Press ⓞ once more to access additional options.

6 ◄ or ► to Reply and press ⓞ to select.

7 ◄ or ► to Write and press ⓞ to select.
A blinking cursor appears. Use the keypad to type your message.
Press ◄ to move one space to the left.
Press ► or the # key to move one space to the right.
Press the * key to delete any unwanted characters.

8 Press ⓞ once message is composed.

9 The display shows Text Message: <Group/Subscriber Alias or ID>, confirming your message is being sent.

10 If the message is sent, a tone sounds and the display shows Message Sent.
OR
If the message is not sent, a tone sounds and the display shows Message Sent Failed.

Only applicable when sending to subscriber aliases or IDs:

If the target radio successfully receives the Quick Text message, a tone sounds and the display shows Message Ack Rcvd.
OR
If the target radio fails to receive the Quick Text message, a tone sounds and the display shows Message Ack Failed.

Editing a Quick Text Message

Procedure:
Press the preprogrammed **Text Messaging** button and proceed to step 3.
OR
Follow the procedure below.

1 menu to access the menu.

2 ◄ or ► to Messages and press ⓞ to select.

3 ◄ or ► to Quick Text and press ⓞ to select.

4 ◄ or ► to the required Quick Text and press ⓞ to select.

5 A blinking cursor appears. Use the keypad to edit the message.
Press ◄ to move one space to the left.
Press ► or the # key to move one space to the right.
Press the * key to delete any unwanted characters.

6 Press (OK) once message is composed.

7 ◄ or ► to the required subscriber alias or ID and press (OK) to select.
OR
◄ or ► to Manual Dial and press (OK) to select.
Key in the subscriber ID and press (OK).

8 The display shows Text Message: <Subscriber Alias or ID>, confirming your message is being sent.

9 If the message is sent, a tone sounds and the display shows Message Sent.
OR
If the message is not sent, a tone sounds and the display shows Message Sent Failed.

Only applicable when sending to subscriber aliases or IDs:

If the target radio successfully receives the Quick Text message, a tone sounds and the display shows Message Ack Rcvd.
OR
If the target radio fails to receive the Quick Text message, a tone sounds and the display shows Message Ack Failed.

NOTE: You will not be able to save modified preprogrammed messages.

Security

Radio Disable via Manual Dial

Procedure:

1 (menu) to access the menu.

2 ◄ or ► to Contacts and press (OK) to select. The entries are alphabetically sorted.

3 ◄ or ► to Manual Dial and press (OK) to select.
Key in the subscriber ID and press (OK).

4 ◄ or ► to Radio Disable and press (OK) to select. The green LED blinks.

5 The display shows Radio Disable: <Subscriber ID> and the green LED lights up.

6 Wait for acknowledgment.

7 If successful, a tone sounds and the display shows Radio Disable Successful.
OR
If not successful, a tone sounds and the display shows Radio Disable Failed.

Do not press (back) during the Radio Disable operation as you will not get an acknowledgement message.

Radio Enable via Manual Dial

Procedure:

1 menu to access the menu.

2 ◄ or ► to Contacts and press OK to select. The entries are alphabetically sorted.

3 ◄ or ► to Manual Dial and press OK to select.
Key in the subscriber ID and press OK.

4 ◄ or ► to Radio Enable and press OK to select. The green LED blinks.

5 The display shows Radio Enable: <Subscriber ID> and the green LED lights up.

6 Wait for acknowledgment.

7 If successful, a tone sounds and the display shows Radio Disable Successful.
OR
If not successful, a tone sounds and the display shows Radio Disable Failed.

Do not press back during the Radio Enable operation as you will not get an acknowledgement message.

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